

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) ~~Genetically~~A genetically modified plant cell, ~~characterised in that it which~~ has an increased activity of at least one OK1 protein and at least one R1 protein in comparison with corresponding wild type plant cells that have not been genetically modified.
2. (Currently amended) ~~Genetically~~The genetically modified plant cell according to Claim 1, wherein the genetic modification ~~consists in the introduction of~~ comprises at least one foreign nucleic acid molecule introduced into the genome of the plant.
3. (Currently amended) ~~Genetically~~The genetically modified plant cell according to Claim 2, wherein at least one foreign nucleic acid molecule codes an OK1 protein.
4. (Currently amended) ~~Genetically~~The genetically modified plant cell according to Claim 2, wherein at least one foreign nucleic acid molecule codes an R1 protein.
5. (Currently amended) ~~Genetically~~The genetically modified plant cell according to Claim 2, wherein a first foreign nucleic acid molecule codes an R1 protein and a second foreign nucleic acid molecule codes an OK1 protein.
6. (Currently amended) ~~Genetically~~The genetically modified plant cell according to Claim 4 or 5, wherein the ~~said~~ foreign nucleic acid molecule coding an R1 protein codes an R1 protein of potato, wheat, maize, rice, soybean, citrus or *Arabidopsis*.
7. (Currently amended) ~~Genetically~~A genetically modified plant cell according to Claim 1 ~~one of claims 1 to 6~~, which synthesizes a modified starch in comparison with corresponding wild type plant cells that have not been genetically modified.
8. (Currently amended) ~~Genetically~~The genetically modified plant cell according to Claim 7, wherein the modified starch is ~~characterised in that it~~ has an increased concentration of starch phosphate and/or a changed phosphate distribution in comparison

with starch isolated from corresponding wild type plant cells that have not been genetically modified.

9. (Currently amended) ~~Genetically~~ The genetically modified plant cell according to Claim 8, wherein the modified starch ~~is characterised in that it~~ has a changed ratio of C-3 phosphate to C-6 phosphate.

10. (Currently amended) ~~Plant containing~~ A plant comprising one or more genetically modified plant cells according to Claim 1-~~one of Claims 1 to 9~~.

11. (Currently amended) ~~Plant~~ A plant according to Claim 10, which is a starch-storing plant.

12. (Currently amended) ~~Plant~~ A plant according to Claim 11, which is a maize plant or wheat plant.

13. (Currently amended) Propagation material of ~~plants~~ a plant according to Claim 10-~~one of Claims 10, 11 or 12, containing genetically modified plant cells according to one of Claims 1 to 9~~.

14. (Currently amended) ~~Harvestable plant parts of plant~~ A harvestable plant part of a plant according to Claim 10-~~one of Claims 10, 11 or 12, containing genetically modified plant cells according to one of Claims 1 to 9~~.

15. (Currently amended) ~~Method for the manufacture of~~ A method of manufacturing a genetically modified plant according to Claim 10-~~one of Claims 10, 11 or 12, wherein comprising:~~

- a) genetically modifying a plant cell ~~is genetically modified~~, wherein the genetic modification ~~leads to an increase in~~ increases the activity of an OK1 protein and an R1 protein in comparison with corresponding wild type plant cells that have not been genetically modified;
- b) regenerating a plant ~~is regenerated~~ from one or more plant cells from Step a); and
- c) ~~if necessary, further~~ optionally producing one or more additional plants ~~are produced with the help of the plants~~ from a plant according to Step b).

16. (Currently amended) Method ~~The method~~ according to Claim 15, wherein the genetic modification ~~consists in~~ comprises the introduction of ~~a~~ at least one foreign nucleic acid molecule into the genome of the plant cell.

17. (Currently amended) Method ~~The method~~ according to Claim 16, wherein at least one ~~said~~ foreign nucleic acid molecule codes an R1 protein.

18. (Currently amended) Method ~~The method~~ according to Claim 16, wherein at least one ~~said~~ foreign nucleic acid molecule codes an OK1 protein.

19. (Currently amended) Method ~~The method~~ according to Claim 15 ~~one of Claims 15 to 18~~, wherein the genetically modified plant synthesizes a modified starch in comparison with corresponding wild type plants that have not been genetically modified.

20. (Currently amended) Method ~~The method~~ according to Claim 19, wherein the modified starch ~~is characterised in that~~ it has an increased concentration of phosphate covalently bound to the starch.

21. (Currently amended) Method ~~The method~~ according to claim 19 ~~or 20~~, wherein the modified starch ~~is characterised in that~~ it has a changed ratio of C-3 phosphate to C-6 phosphate.

22. (Currently amended) Modified ~~A modified~~ starch obtainable from a genetically modified plant according to Claim 10 ~~one of Claims 10, 11 or 12~~, from propagation material according to Claim 13 or from harvestable plant parts according to Claim 14.

23. (Currently amended) ~~Method for the manufacture of A method of manufacturing a modified starch-including the step of comprising~~ extracting the starch from a genetically modified plant cell according to Claim 1~~one of Claims 1 to 9~~.

24. (Currently amended) ~~Method for the manufacture of A method of manufacturing a modified starch-including the step of comprising~~ extracting the starch from a plant according to Claim 10~~one of Claims 10, 11 or 12~~.

25. (Canceled)

26. (Currently amended) ~~Modified~~A modified starch obtainable by ~~means~~ of a method according to Claim 23~~one of Claims 23 or 24~~.

27. (Currently amended) ~~Method for the manufacture of A method of manufacturing a derived starch, wherein comprising deriving~~ a modified starch according to Claim 22~~or 26 is derived~~.

28. (Currently amended) ~~Derived~~A derived starch obtainable by ~~means~~ of a method according to Claim 27.

29. (Canceled)

30. (Currently amended) ~~Flours containing~~A flour comprising at least one modified starch according to Claim 22~~or 26~~.

31. (Currently amended) ~~Flours~~A flour obtainable from plant cells according to Claim 1~~one of Claims 1 to 9~~, from parts of plants according to one of Claims 10, 11 or 12, from propagation material according to Claim 13 or from harvestable plant parts according to Claim 14.

32. (Currently amended) ~~Method for the manufacture of including the step of~~A method of manufacturing a flour comprising milling plant parts from plants a plant according to Claim 10, or propagation material or harvestable parts therefrom one of Claims 10, 11 or 12 or from propagation material according to Claim 13 or harvestable material according to Claim 14.

33. (Canceled)

34. (Currently amended) ~~Recombinant A recombinant~~ nucleic acid molecule containing comprising a nucleic acid molecule coding an OK1 protein and a nucleic acid molecule coding an R1 protein.

35. (Currently amended) ~~Vector containing A vector comprising~~ a recombinant nucleic acid molecule according to Claim 34.

36. (Currently amended) ~~Vector~~ ~~The vector~~ according to Claim 35, wherein the recombinant nucleic acid molecules are linked with ~~regulatory sequences that initiate the~~ ~~at least one regulatory sequence that initiates~~ transcription in prokaryotic or eukaryotic cells.

37. (Currently amended) ~~Host~~ ~~A host~~ cell that is genetically modified with a recombinant nucleic acid molecule according to Claim 34 ~~or with a vector according to one of Claims 35 or 36~~.

38. (Currently amended) ~~Composition containing~~ ~~A composition comprising~~ a recombinant nucleic acid molecule according to Claim 34 ~~or with a vector according to one of Claims 35 or 36~~.

39. (Currently amended) ~~Composition containing~~ ~~A composition comprising~~ a nucleic acid sequence coding an OK1 protein and a nucleic acid sequence coding an R1 protein.

40. (Currently amended) ~~Use of~~ ~~A method comprising~~ transforming a plant cell using a composition according to ~~Claim 39~~ ~~one of Claims 38 or 39 for the transformation of plant cells~~.

41. (New) A host cell, which is genetically modified with a vector according to Claim 35.